2006 RESEARCH PROBLEM STATEMENT					
Problem Title:	Development of an indirec	t wildlife impa	ct methodology	No.: 06.04-04	
Submitted By:	Tom Twedt, BIO-WEST; and Greg Punske, FHWA			dt@bio-west.com ke@fhwa.dot.gov	
1. Briefly describe th	ne problem to be addressed:				
The indirect impacts on wildlife (primarily noise) on constructing and operating highways in Utah and nationwide are not well understood, but are of concern to resource agencies ever more frequently. The agencies are obligated to evaluate these impacts, but have no available methodologies or "tools" to use, thus they tend to "guesstimate" (probably overestimating) the impacts. A reliable method that can be replicated and readily applied is needed to facilitate the environmental review process and make it more efficient and accurate.					
Strategic Goal:	X Preservation X Operation	Capacity	Safety		
(Check all that apply) 2. List the research (objective(s) to be accomplished:				
Evaluate existing state and federal approaches to indirect wildlife impact assessment					
2. Develop a practical and feasible assessment methodology for Utah agencies.					
3. Make methodolog	gy available for use.				
3. List the major tas	ks required to accomplish the research obje	ctive(s):	Estimated person-hou	ırs	
Coordinate agence	ey involvement and support		80		
2. Determine and ev	valuate current approaches		160		
3. Assess preliminal	ry Legacy Parkway indirect avian impacts		240		
4. Formulate assess	ment methodology		320		
5. Coordinate with a	agencies and refine as appropriate		120		
6. Develop guidano	ce manual and distribute		280		
Total Time = 2 y Complete Complete Complete Refine wit Complete	sed schedule (when do you need this done, a years Tasks 1 and 2 first summer (2006) Task 3 following fall and winter (2006-2007) Task 4 next spring (2007) th 2007 Legacy data during fall /winter (2007/2008) Task 5 winter (2008) Task 6 spring (2008)		there):		
5. Indicate type of re-	search and / or development project this is:				
Large: X Research Small: Research Other	ch Project Development Project ch Evaluation Experimental Featu	re New Pro	oduct Evaluation	ransfer Initiative :	
	y is best suited to perform this project (University with highway impact assessment experience)	- ·		·	

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7. What deliverable(s) would you like to receive at the end of the project? (e.g. useable technical product, design method, technique, training, workshops, report, manual of practice, policy, procedure, specification, standard, software, hardware, equipment, training tool, etc.)

A technical report and a procedural manual which will be usable by UDOT specialists, agencies and consultants.

8. Describe how will this project be implemented at UDOT.

Upon approval, incorporate methodology into UDOT Environmental Process. Encourage use by resource agencies and consultants on appropriate new projects.

9. Describe how UDOT will benefit from the implementation of this project, and who the beneficiaries will be.

Implementation will provide an acceptable method of accessing (and thus mitigating) indirect impacts to wildlife farm transportation projects. The results will benefit UDOT, Resources agencies, and the resource itself.

10. Describe the expected risks, obstacles, and strategies to overcome these.

No risks anticipated other than the challenge of applicability to wide range of ecosystems without extending testing and evaluations.

11. List the key UDOT Champion of this project (UDOT employee who will help Research Division steer and lead this project, and will spearhead the implementation of the results):

Shane Marshall – Environmental Program Manager – (801) 965-4384

12. Estimate the cost of this research study including implementation effort (use person-hours from No. 3):

\$96,000

13. List other champions (UDOT and non-UDOT) who are interested in and willing to participate in the Technical Advisory Committee for this study:

Name	Organization/Division/Region	Phone
A) Brent Jensen	UDOT Envir/Hydraulics/Geotech Mgr.	801-965-4327
B) Paul West	UDOT Wildlife Specialist	801-965-4672
C) Tom Twedt	BIO-WEST, Inc.	435-752-4202
D) Greg Punske	FHWA Environmental Lead	801-963-0078 ext. 237
E) Adam Kozlowski	DWR Region 1	801-476-2740
F) Nathan Darnell	USFWS Ecological Services	801-975-3330 ext. 137

14. Identify other Utah agencies, regional or national agencies, or other groups that may have an interest in supporting this study:

Utah Division of Wildlife Resources US Fish and Wildlife Service Federal Highway Administration US Army Corps of Engineers Transportation Research Board